

09/08/99

I6-DEC-2015 14:14  
S:\4-Orange\W-5601DJ I-40 Guardrail\W-5601DJ.Rdy - t.sh.dgn  
cwiles AT D7CADD271375

TIP PROJECT: W-5601 DJ

CONTRACT:

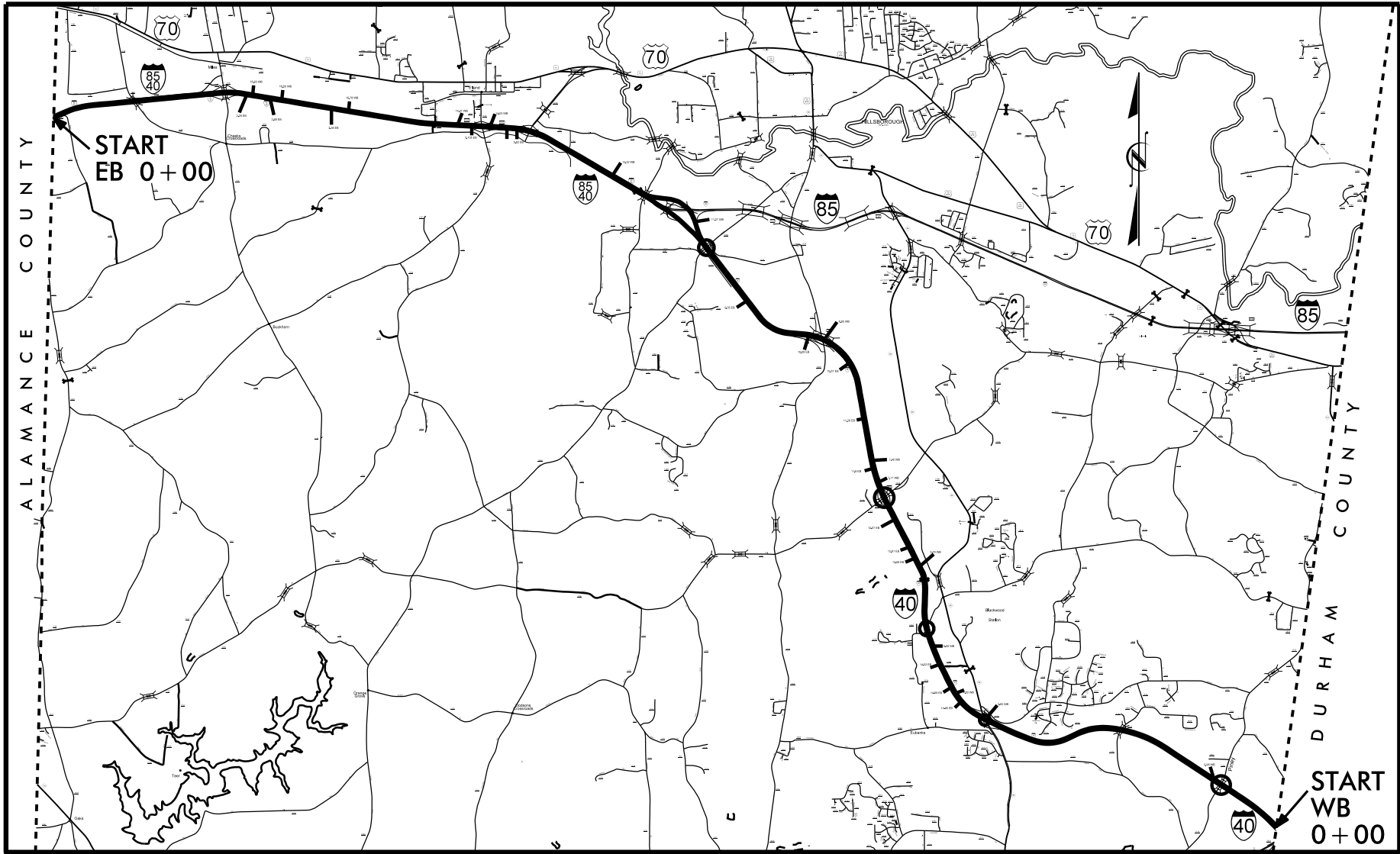
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

ORANGE COUNTY

LOCATION: I-40 FROM ALAMANCE/ORANGE COUNTY  
LINE TO ORANGEDURHAM COUNTY LINE

TYPE OF WORK: GUARDRAIL END TERMINAL UPGRADE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601 DJ	1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.115	HSIP-0040 (024)	P.E.	
50138.3.115	HSIP-0040 (024)	CONST.	



GENERAL NOTES:

2012 SPECIFICATIONS  
EFFECTIVE: 01-17-2012  
REVISED: 07-30-2012

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

EFF. 01-17-2012  
REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE  
DIVISION 8 - INCIDENTALS  
862.01 Guardrail Placement  
862.02 Guardrail Installation

GRAPHIC SCALES

NOT TO SCALE

DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5601 DJ = 19.2 MILES

NOTE: NO SURVEY CONDUCTED.  
STATIONS ARE APPROXIMATE.

Prepared In the Office of:  
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
NA

LETTING DATE:  
FEB 18, 2016

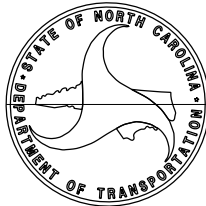
CHRIS SMITHERMAN, P.E.  
PROJECT ENGINEER

ROADWAY DESIGN  
ENGINEER

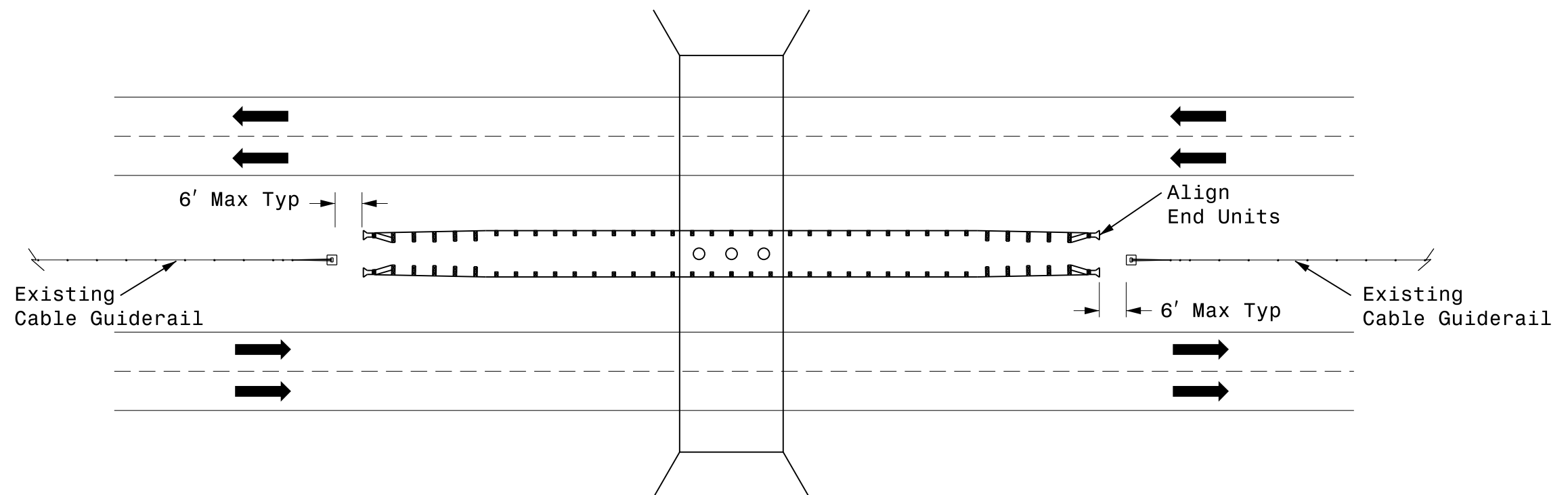
12/16/2015



DocuSign  
Chris Smitherman  
EA7926E3CDA446A... P.E.  
SIGNATURE:



NOTE: MM 0.00 STARTS AT ORANGE COUNTY  
LINE IN EITHER DIRECTION



## Typical 1



COMPUTED BY: <u>Tim Jackson</u>				DATE: <u>11/20/2015</u>				DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA										PROJECT REFERENCE NO. SHEET NO.							
CHECKED BY: <u>J.A. Sour</u>				DATE: <u>12/9/2015</u>														50138.3.115 4							

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL  
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.  
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL  
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350  
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	LOCATION MM		APPROACH OR TRAILING END	LOCATION LT, RT, M	LENGTH	ANCHORS								GUARDRAIL REMOVAL	REMARKS	
					STRAIGHT	XI MOD	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC			
I-40 EB	0+00	Alamance/Orange County Line														
I-40 EB	2.29	Fill Section (E of SR 1114 (Buckhorn Rd))	APPROACH	RT				1						37.5		
I-40 EB	2.58	Fill Section	APPROACH	RT				1						37.5		
I-40 EB	3.38	Fill Section	APPROACH	RT				1						37.5		
I-40 EB	5.10	Underpass	APPROACH	RT				1						37.5		
I-40 EB	5.62	Underpass	APPROACH	RT				1						37.5		
I-40 EB	8.26	SR 1006 (Orange Grove Rd) Median Bridge Support Column	APPROACH	M	25				1					37.5		
I-40 EB		SR 1006 (Orange Grove Rd) Median Bridge Support Column	TRAILING	M	37.5				1					37.5		
I-40 EB	9.05	Fill	APPROACH	RT				1						37.5		
I-40 EB	10.08	Bridge	APPROACH	RT				1						37.5		
I-40 EB	10.59	Fill	APPROACH	RT				1						37.5		
I-40 EB	11.28	Fill	APPROACH	RT				1						37.5		
I-40 EB	11.90	Fill	APPROACH	RT				1						37.5		
I-40 EB	12.23	SR 1723 (New Hope Church Rd) Median Bridge Support Column	APPROACH	M	25				1					37.5		
I-40 EB		SR 1723 (New Hope Church Rd) Median Bridge Support Column	TRAILING	M	37.5				1					37.5		
I-40 EB	12.57	Fill	APPROACH	RT				1						37.5		
I-40 EB	12.91	Fill	APPROACH	RT				1						37.5		
I-40 EB	13.06	Fill	APPROACH	RT				1						37.5		
I-40 EB	13.96	Bridge over SR 1725 (Mill House Rd)	TRAILING	M	25				1					37.5		
I-40 EB	14.32	Fill	APPROACH	RT				1						37.5		
I-40 EB	14.69	Fill	APPROACH	RT				1						37.5		
I-40 EB	14.95	Fill	APPROACH	RT				1						37.5		
I-40 EB	15.22	NC 86 Median Bridge Support Column	TRAILING	M	25				1					37.5		
I-40 EB	18.31	SR 1734 (Erwin Rd) Median Bridge Support Column	TRAILING	M	37.5				1					37.5		
I-40 EB TOTAL					212.5			16	7					862.5		
RAMPS		I-85 SB TO I-40 EB @ I-40 WB OVERPASS	APPROACH	RT				1						37.5		
RAMPS		I-85 SB TO I-40 EB, APPROACH TO BRIDGE OVER I-40/85	APPROACH	LT				1						37.5		
RAMPS		I-85 SB TO I-40 EB, APPROACH TO BRIDGE OVER I-40/85	APPROACH	RT				1						37.5		
RAMPS		I-40 WB TO SR 1120 (MT WILLING RD)	APPROACH	LT				1						37.5		
RAMPS		I-40 EB TO I-85 CONNECTOR	APPROACH	RT				1						37.5		
RAMPS		I-40 WB TO SR 1114 (BUCKHORN RD)	APPROACH	RT				1						37.5		
RAMPS		SB SR 1114 (BUCKHORN RD) RIGHT TURN LANE TO I-40 WB	APPROACH	RT				1						37.5		
RAMPS TOTAL					0			7	0					262.5		
GRAND TOTAL					450			38	18					2100		